

IN THE CLAIMS:

1. (Currently Amended) Method for producing cardboard tubes by winding a plurality of ribbons onto a spindle, a preset number of said ribbons being glued in correspondence of ~~the~~ a lower surface thereof, a predetermined amount of supplementary quick setting glue being applied on the lower surface of ~~the~~ a last ribbon destined to be wound on the spindle, in  
5 proximity to at least a longitudinal edge of said last ribbon forming a corresponding stripe of quick setting glue astride of a section of ~~the same~~ said last ribbon interested by a subsequent cutting action executed downstream of the spindle, characterized in that ~~the~~ application of said at least one stripe of supplementary glue is operated at intervals corresponding to a preset length of said last ribbon.

2. (Currently Amended) Method according to claim 1, ~~characterized in that~~ wherein: said stripe of quick setting glue is distributed in proximity to both ~~the~~ longitudinal edges of said ribbon.

3. (Currently Amended) Method according to claim 1, ~~characterized in that~~ wherein: the quick setting glue is a “hot melt” glue.

4. (Currently Amended) Method according to claim 1, ~~characterized in that~~ wherein: said stripes of quick setting glue are distributed by two injectors acting along an advancing path of the said ribbon upstream of the spindle.

5. (Currently Amended) Method according to claim 1, ~~characterized in that~~ wherein: all the ribbons are of the same width.

6. (Currently Amended) Method according to claim 1, ~~characterized in that~~ wherein: the ribbons are of different width.

7. (Currently Amended) Method according to claim 1, ~~characterized in that~~ wherein: said preset length depends on ~~the~~ a length of the tubes to be obtained.

8. (Withdrawn) Cardboard tubes producing machine, comprising a structure supporting feeding means for a plurality of ribbons of paper or paper-like material, a spindle on which said ribbons, glued in correspondence of the respective lower surfaces, with the exception of the first ribbon which is destined to the direct contact with the spindle, are wound, means for moving  
5 said ribbons and winding them on said spindle, the machine comprising means disposed and acting along a path of the ribbon, the upper surface of which is destined to define the outer surface of a tube, said means distributing a stripe of supplementary quick setting glue in proximity to almost a longitudinal edge of the lower surface of said ribbon astride of a section of the latter interested by a subsequent cutting operation downstream of the spindle,  
10 characterized in that said means are operated at intervals corresponding to a present length of said last ribbon.

9. (Withdrawn) Machine according to claim 8, characterized in that said distributor means of supplementary quick setting glue comprise a couple of injectors fixed to a plate that is fixed to the structure near the exit section of the latter, with the respective nozzles directed to the lower surface of the ribbon to be treated, the latter being kept in guide, in  
5 correspondence of the injectors, by a wing of the said plate oriented parallel to the advancing direction of the ribbon and which is spaced from the nozzles of the two injectors, the ribbon passing through the space between the wing and the nozzles, with the upper surface turned towards the wing and the lower surface turned towards the nozzles.

10. (Withdrawn) Machine according to claim 8, characterized in that it comprises programmable electronic means apt to measure the length of the portions of ribbon in correspondence of said means distributing the supplementary quick setting glue: said means being driven by programmable electronic means.

11. (New) A method for producing a tube using a plurality of ribbons and a spindle, the method comprising the steps of:

winding a first ribbon of the plurality of ribbons on the spindle to form a tube;

winding a second ribbon of the plurality of ribbons on top of the first ribbon which  
5 forms the tube, the second ribbon being arranged radially outward of the first ribbon;

fastening the second ribbon to the top of the first ribbon one of during or after said winding of the second ribbon on top of the first ribbon;

determining a tube cut position on the tube where the tube will be cut, at least the second ribbon being cut at the cut position;

10       determining a ribbon cut position on the second ribbon before the second ribbon is wound on top of the first ribbon, the ribbon cut position being arranged at the tube cut position when the second ribbon is wound on top of the first ribbon to form the tube;

15       applying an adhesive to the second ribbon at the ribbon cut position before the second ribbon is wound on top of the first ribbon, said applying of the adhesive is performed on a side of the second ribbon which will be facing radially inward on the tube, said applying of the adhesive being supplemental to said fastening of the second ribbon to the top of the first ribbon.

12. (New) A method in accordance with claim 11, further comprising:

determining a plurality of the tube cut positions on the tube;

determining a plurality of the ribbon cut positions corresponding to the plurality of the tube cut positions;

5       applying the adhesive to the second ribbon at the plurality of ribbon cut positions, the adhesive not being applied in an area between the plurality of ribbon cut positions.

13. (New) A method in accordance with claim 11, wherein:

said fastening of the second ribbon to the top of the first ribbon is performed using a primary adhesive;

the adhesive used in the step of applying adhesive to the second ribbon at the cut

5 position is a supplementary adhesive.

14. (New) A method in accordance with claim 11, wherein:

said winding of said first and second ribbon is performed in a helix longitudinally along the spindle.

15. (New) A method in accordance with claim 11, wherein:

said applying of the adhesive is performed at a longitudinal edge of the second ribbon, and is not performed between longitudinal edges of the second ribbon.

16. (New) A method in accordance with claim 11, wherein:

said applying of the adhesive is performed at both longitudinal edges of the second ribbon, and is not performed between the longitudinal edges of the second ribbon.

17. (New) A method in accordance with claim 11, wherein:

the tube is to be cut completely radially at the tube cut position.

18. (New) A method in accordance with claim 11, wherein:

said fastening of the second ribbon to the top of the first ribbon is performed using a primary adhesive;

the adhesive used in the step of applying adhesive to the second ribbon at the cut

5 position is a supplementary adhesive;

said winding of said first and second ribbon is performed in a helix longitudinally along the spindle;

said applying of the supplementary adhesive is performed at both longitudinal edges of the second ribbon, and is not performed between the longitudinal edges of the second ribbon;

10 the tube is to be cut completely radially at the tube cut position.